J. Srew
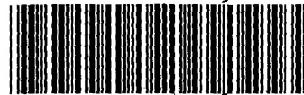
ENTERED

RUSH

1600

```
        RAW SEQUENCE LISTING          DATE: 06/14/2002
        PATENT APPLICATION:  US/09/623,828C      TIME: 15:08:23

        Input Set : A:\50146.004002.SEQLIST.TXT
        Output Set: N:\CRF3\06142002\I623828C.raw
```

```
     4 <110> APPLICANT: Schweighoffer, Fabien
     5        Bracco, Laurent
     6        Tocque, Bruno
     8 <120> TITLE OF INVENTION: Qualitative Differential Screening
    11 <130> FILE REFERENCE: 50146/004002
    13 <140> CURRENT APPLICATION NUMBER: 09/623,828C
    14 <141> CURRENT FILING DATE: 2000-11-30
    16 <150> PRIOR APPLICATION NUMBER: PCT/FR99/00547
    17 <151> PRIOR FILING DATE: 1999-03-11
    19 <160> NUMBER OF SEQ ID NOS: 16
    21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    23 <210> SEQ ID NO: 1
    24 <211> LENGTH: 23
    25 <212> TYPE: DNA
    26 <213> ORGANISM: Artificial Sequence
    28 <220> FEATURE:
    29 <223> OTHER INFORMATION: Synthetic
W--> 31 <221> NAME/KEY: misc_feature
    32 <222> LOCATION: 13-19, 23
    33 <223> OTHER INFORMATION: n = A,T,C or G
W--> 35 <400> 1
W--> 36 gagaagcgtt atnnnnnnna ggn                            23
    38 <210> SEQ ID NO: 2
    39 <211> LENGTH: 24
    40 <212> TYPE: DNA
    41 <213> ORGANISM: Artificial Sequence
    43 <220> FEATURE:
    44 <223> OTHER INFORMATION: Synthetic
W--> 46 <221> NAME/KEY: misc_feature
    47 <222> LOCATION: 13-20
    48 <223> OTHER INFORMATION: n = A,T,C or G
W--> 50 <400> 2
W--> 51 gagaagcgtt atnnnnnnnn tccc                           24
    53 <210> SEQ ID NO: 3
    54 <211> LENGTH: 23
    55 <212> TYPE: DNA
    56 <213> ORGANISM: Artificial Sequence
    58 <220> FEATURE:
    59 <223> OTHER INFORMATION: Synthetic
W--> 61 <221> NAME/KEY: misc_feature
    62 <222> LOCATION: (13)...(23)
    63 <223> OTHER INFORMATION: n = A,T,C or G
W--> 65 <400> 3
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RAW SEQUENCE LISTING   DATE: 06/14/2002
PATENT APPLICATION: US/09/623,828C   TIME: 15:08:23

Input Set : A:\50146.004002.SEQLIST.TXT
Output Set: N:\CRF3\06142002\I623828C.raw

```
W--> 66 gagaagcgtt atnnnnnnnn nnn                                 23
     68 <210> SEQ ID NO: 4
     69 <211> LENGTH: 20
     70 <212> TYPE: DNA
     71 <213> ORGANISM: Artificial Sequence
     73 <220> FEATURE:
     74 <223> OTHER INFORMATION: Synthetic
W--> 76 <221> NAME/KEY: misc_feature
     77 <222> LOCATION: (13)...(17)
     78 <223> OTHER INFORMATION: n = A,T,C or G
W--> 80 <400> 4
W--> 81 gagaagcgtt atnnnnncca                                     20
     83 <210> SEQ ID NO: 5
     84 <211> LENGTH: 66
     85 <212> TYPE: DNA
     86 <213> ORGANISM: Artificial Sequence
     88 <220> FEATURE:
     89 <223> OTHER INFORMATION: Synthetic
     91 <400> SEQUENCE: 5
     92 ccacacctgg ccagtatgtg ctcactggct tgcagagtgg gcagccagcc taagcatttg 60
     93 cactgg                                                       66
     95 <210> SEQ ID NO: 6
     96 <211> LENGTH: 23
     97 <212> TYPE: DNA
     98 <213> ORGANISM: Artificial Sequence
    100 <220> FEATURE:
    101 <223> OTHER INFORMATION: Synthetic
    103 <400> SEQUENCE: 6
    104 gggacctgtt tgacatgaag ccc                                    23
    106 <210> SEQ ID NO: 7
    107 <211> LENGTH: 22
    108 <212> TYPE: DNA
    109 <213> ORGANISM: Artificial Sequence
    111 <220> FEATURE:
    112 <223> OTHER INFORMATION: Synthetic
    114 <400> SEQUENCE: 7
    115 cagtttccgc tccacaggtt gc                                     22
    117 <210> SEQ ID NO: 8
    118 <211> LENGTH: 96
    119 <212> TYPE: DNA
    120 <213> ORGANISM: Artificial Sequence
    122 <220> FEATURE:
    123 <223> OTHER INFORMATION: Synthetic
    125 <400> SEQUENCE: 8
    126 gtacgggaga gcacgaccac acctggccag tatgtgctca ctggcttgca gagtgggcag 60
    127 cctaagcatt tgctactggt ggaccctgag ggtgtg                        96
    129 <210> SEQ ID NO: 9
    130 <211> LENGTH: 441
    131 <212> TYPE: PRT
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RAW SEQUENCE LISTING   DATE: 06/14/2002
PATENT APPLICATION: US/09/623,828C   TIME: 15:08:23

Input Set : A:\50146.004002.SEQLIST.TXT
Output Set: N:\CRF3\06142002\I623828C.raw

132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic
137 <400> SEQUENCE: 9
138 Met Asn Lys Leu Ser Gly Gly Gly Gly Arg Arg Thr Arg Val Glu Gly
139 1   5   10   15
140 Gly Gln Leu Gly Gly Glu Glu Trp Thr Arg His Gly Ser Phe Val Asn
141   20   25   30
142 Lys Pro Thr Arg Gly Trp Leu His Pro Asn Asp Lys Val Met Gly Pro
143   35   40   45
144 Gly Val Ser Tyr Leu Val Arg Tyr Met Gly Cys Val Glu Val Leu Gln
145   50   55   60
146 Ser Met Arg Ala Leu Asp Phe Asn Thr Arg Thr Gln Val Thr Arg Glu
147 65   70   75   80
148 Ala Ile Ser Leu Val Cys Glu Ala Val Pro Gly Ala Lys Gly Ala Thr
149   85   90   95
150 Arg Arg Arg Lys Pro Cys Ser Arg Pro Leu Ser Ser Ile Leu Gly Arg
151   100   105   110
152 Ser Asn Leu Lys Phe Ala Gly Met Pro Ile Thr Leu Thr Val Ser Thr
153   115   120   125
154 Ser Ser Leu Asn Leu Met Ala Ala Asp Cys Lys Gln Ile Ile Ala Asn
155   130   135   140
156 His His Met Gln Ser Ile Ser Phe Ala Ser Gly Gly Asp Pro Asp Thr
157 145   150   155   160
158 Ala Glu Tyr Val Ala Tyr Val Ala Lys Asp Pro Val Asn Gln Arg Ala
159   165   170   175
160 Cys His Ile Leu Glu Cys Pro Glu Gly Leu Ala Gln Asp Val Ile Ser
161   180   185   190
162 Thr Ile Gly Gln Ala Phe Glu Leu Arg Phe Lys Gln Tyr Leu Arg Asn
163   195   200   205
164 Pro Pro Lys Leu Val Thr Pro His Asp Arg Met Ala Gly Phe Asp Gly
165   210   215   220
166 Ser Ala Trp Asp Glu Glu Glu Glu Glu Pro Pro Asp His Gln Tyr Tyr
167 225   230   235   240
168 Asn Asp Phe Pro Gly Lys Glu Pro Pro Leu Gly Gly Val Val Asp Met
169   245   250   255
170 Arg Leu Arg Glu Gly Ala Ala Pro Gly Ala Ala Arg Pro Thr Ala Pro
171   260   265   270
172 Asn Ala Gln Thr Pro Ser His Leu Gly Ala Thr Leu Pro Val Gly Gln
173   275   280   285
174 Pro Val Gly Gly Asp Pro Glu Val Arg Lys Gln Met Pro Pro Pro Pro
175   290   295   300
176 Pro Cys Pro Gly Arg Glu Leu Phe Asp Asp Pro Ser Tyr Val Asn Val
177 305   310   315   320
178 Gln Asn Leu Asp Lys Ala Arg Gln Ala Val Gly Gly Ala Gly Pro Pro
179   325   330   335
180 Asn Pro Ala Ile Asn Gly Ser Ala Pro Arg Asp Leu Phe Asp Met Lys
181   340   345   350
182 Pro Phe Glu Asp Ala Leu Arg Val Pro Pro Pro Pro Gln Ser Val Ser

RAW SEQUENCE LISTING   DATE: 06/14/2002
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Input Set : A:\50146.004002.SEQLIST.TXT
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183   355   360   365
184 Met Ala Glu Gln Leu Arg Gly Glu Pro Trp Phe His Gly Lys Leu Ser
185   370   375   380
186 Arg Arg Glu Ala Glu Ala Leu Leu Gln Leu Asn Gly Asp Phe Leu Val
187 385   390   395   400
188 Arg Thr Lys Asp His Arg Phe Glu Ser Val Ser His Leu Ile Ser Tyr
189   405   410   415
190 His Met Asp Asn His Leu Pro Ile Ile Ser Ala Gly Ser Glu Leu Cys
191   420   425   430
192 Leu Gln Gln Pro Val Glu Arg Lys Leu
193   435   440
196 <210> SEQ ID NO: 10
197 <211> LENGTH: 1326
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Synthetic
204 <400> SEQUENCE: 10
205 atgaacaagc tgagtggagg cggcgggcgc aggactcggg tggaaggggg ccagcttggg 60
206 ggcgaggagt ggacccgcca cgggagcttt gtcaataagc ccacgcgggg ctggctgcat 120
207 cccaacgaca aagtcatggg acccgggggtt tcctacttgg ttcggtacat gggttgtgtg 180
208 gaggtcctcc agtcaatgcg tgccctggac ttcaacaccc ggactcaggt caccagggag 240
209 gccatcagtc tggtgtgtga ggctgtgccg ggtgctaagg gggcgacaag gaggagaaag 300
210 ccctgtagcc gcccgctcag ctctatcctg gggaggagta acctgaaatt tgctggaatg 360
211 ccaatcactc tcaccgtctc caccagcagc ctcaacctca tggccgcaga ctgcaaacag 420
212 atcatcgcca accaccacat gcaatctatc tcatttgcat ccggcgggga tccggacaca 480
213 gccgagtatg tcgcctatgt tgccaaagac cctgtgaatc agagagcctg ccacattctg 540
214 gagtgtcccg aagggcttgc ccaggatgtc atcagcacca ttggccaggc cttcgagttg 600
215 cgcttcaaac aatacctcag gaacccaccc aaactggtca cccctcatga caggatggct 660
216 ggctttgatg gctcagcatg ggatgaggag gaggaagagc cacctgacca tcagtactat 720
217 aatgacttcc cggggaagga accccccttg ggggggggtgg tagacatgag gcttcgggaa 780
218 ggagccgctc caggggctgc tcgacccact gcacccaatg cccagacccc cagccacttg 840
219 ggagctacat tgcctgtagg acagcctgtt gggggagatc cagaagtccg caaacagatg 900
220 ccacctccac cacccgtcc aggcagagag cttttttgatg atccctccta tgtcaacgtg 960
221 cagaacctag acaaggcccg gcaagcagtg ggtggtgctg ggcccccaa tcctgctatc 1020
222 aatggcagtg caccccggga cctgtttgac atgaagccct cgaagatgc tcttcgggtg 1080
223 cctccacctc cccagtcggt gtccatggct gagcagctcc gaggggagcc ctggttccat 1140
224 gggaagctga gccggcggga ggctgaggca ctgctgcagc tcaatggggga cttcttggtt 1200
225 cggactaagg atcaccgctt tgaaagtgtc agtcacctta tcagctacca catggacaat 1260
226 cacttgccca tcatctctgc gggcagcgaa ctgtgtctac agcaacctgt ggagcggaaa 1320
227 ctgtga   1326
229 <210> SEQ ID NO: 11
230 <211> LENGTH: 19
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Synthetic
237 <400> SEQUENCE: 11
238 tgcccaaatc aacaagagc   19

RAW SEQUENCE LISTING   DATE: 06/14/2002
PATENT APPLICATION: US/09/623,828C   TIME: 15:08:23

Input Set : A:\50146.004002.SEQLIST.TXT
Output Set: N:\CRF3\06142002\I623828C.raw

```
240 <210> SEQ ID NO: 12
241 <211> LENGTH: 19
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic
248 <400> SEQUENCE: 12
249 cccctgacaa gcctgaata                                    19
251 <210> SEQ ID NO: 13
252 <211> LENGTH: 24
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Synthetic
259 <400> SEQUENCE: 13
260 atgtctcaga gcaaccggga gctg                              24
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 24
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Synthetic
270 <400> SEQUENCE: 14
271 gtggctccat tcaccgcggg gctg                              24
273 <210> SEQ ID NO: 15
274 <211> LENGTH: 19
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic
281 <400> SEQUENCE: 15
282 tgccaagaag ggaaggagt                                    19
284 <210> SEQ ID NO: 16
285 <211> LENGTH: 20
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Synthetic
292 <400> SEQUENCE: 16
293 tgtcatgact ccagcaatag                                   20
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/14/2002
PATENT APPLICATION: US/09/623,828C   TIME: 15:08:24

Input Set : A:\50146.004002.SEQLIST.TXT
Output Set: N:\CRF3\06142002\I623828C.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 13,14,15,16,17,18,19,23
Seq#:2; N Pos. 13,14,15,16,17,18,19,20
Seq#:3; N Pos. 13,14,15,16,17,18,19,20,21,22,23
Seq#:4; N Pos. 13,14,15,16,17

VERIFICATION SUMMARY   DATE: 06/14/2002
PATENT APPLICATION: **US/09/623,828C**   TIME: 15:08:24

Input Set : **A:\50146.004002.SEQLIST.TXT**
Output Set: **N:\CRF3\06142002\I623828C.raw**

```
L:31 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:35 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:46 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:61 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:65 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:76 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:80 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
```